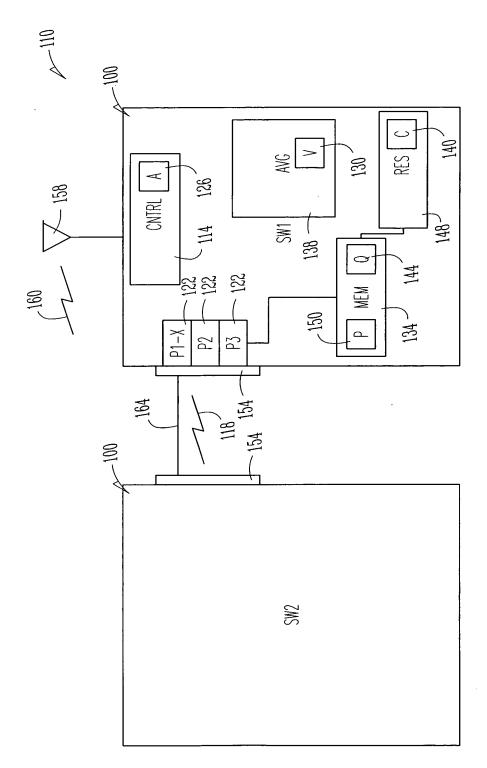


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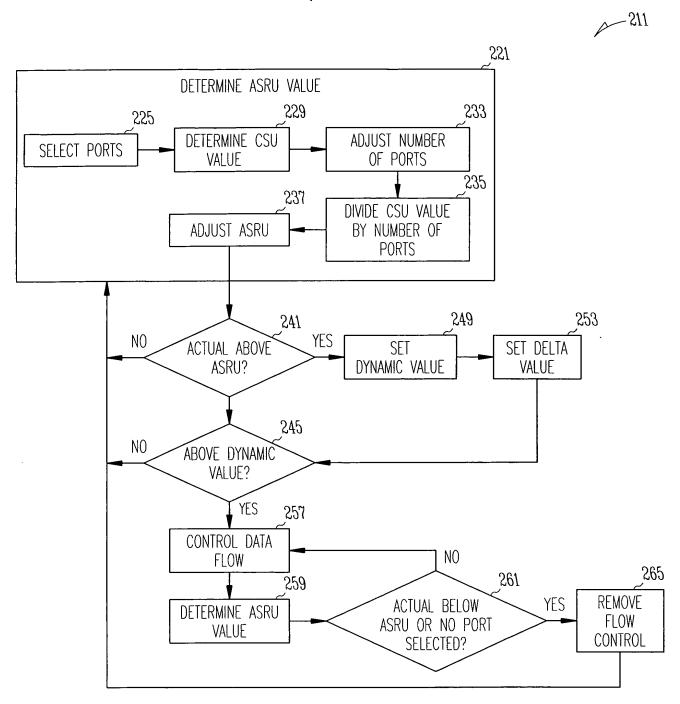


Fig. 2

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```
PortRxUsage = Per Receive port utilization of memory
PortRxSharedUsage = (PortRxUsage > Tpmin) ? (PortRxUsage - Tpmin):0
CumulativeSharedUsage = SUM (PortRxSharedUsage)
Delta Value = Function(port speed, overall resource usage)
           if (CumulativeSharedUsage is greater than a memory level for which adaptive flow
           control is enabled)
                     NumPortsInShared = count of all the ports which are using memory in shared
                                                 space // Different speed ports are scaled accordingly. 10G
                                                 is counted as 10 ports. This value is used to determine
                                                 the average shared memory usage per 1G port.
                     AverageSharedUsage1G = [CumulativeSharedUsage /NumPortsInShared]
                     AverageSharedUsage10G = AverageSharedUsage1G * 10
                     DynamicThresh1G = AverageSharedUsage1G + Delta value
                     DynamicThresh10G = AverageSharedUsage10G + Delta value
                     DynamicThresh1Gdown = DynamicThresh1G - Delta value
                     DynamicThresh10Gdown = Dynamicthresh10G - Delta value
           DynamicThresh = (Portspeed == 10G) ? DynamicThresh10G : DynamicThresh1G
           DynamicThreshdown = (Portspeed == 10G) ?
                                                    Dynamicthreshdown10G: DynamicThreshdown1G
           if (PortRxSharedUsage >= DynamicThresh) \longrightarrow 384
           {// this port is consuming more than the average
                     AssertFlowControl:
                     FlowControlTime = 16'hFFFF or
                                                    Function(PortRxSharedUsage - DynamicThresh)
           else if (PortRxSharedUsage < DynamicThreshDown) or
                                                                        (PortRxUsage <= Tpmin) 386
           }// this port is no longer causing congestion
                     DeassertFlowControl;
```

Fig.3

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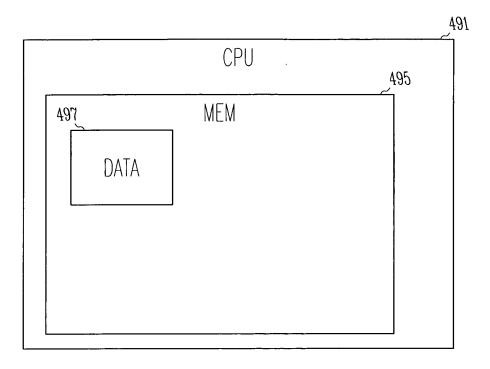


Fig. 4